

UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/517,987 03/03/2000		03/03/2000	Kuei-Wu Huang	94-C-096C2	5571
30425	7590	08/01/2002			
STMICROELECTRONICS, INC.				EXAMINER	
MAIL STATION 2346 1310 ELECTRONICS DRIVE CARROLLTON, TX 75006			BOOTH, RICHARD A		
				ART UNIT	PAPER NUMBER
				2812	
			DATE MAILED: 08/01/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Applicant(s) HUANG ET AL. 09/517.987 Advisory Action Examiner Art Unit Richard A. Booth 2812 --The MAILING DATE of this communication appears on the cover sheet with the correspondence address --THE REPLY FILED 22 July 2002 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. Therefore, further action by the applicant is required to avoid abandonment of this application. A proper reply to a final rejection under 37 CFR 1.113 may only be either: (1) a timely filed amendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. PERIOD FOR REPLY [check either a) or b)] a) The period for reply expires _____months from the mailing date of the final rejection. b) The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection. ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). 1. A Notice of Appeal was filed on 22 July 2002. Appellant's Brief must be filed within the period set forth in 37 CFR 1.192(a), or any extension thereof (37 CFR 1.191(d)), to avoid dismissal of the appeal. 2. The proposed amendment(s) will not be entered because: (a) they raise new issues that would require further consideration and/or search (see NOTE below); (b) they raise the issue of new matter (see Note below); (c) they are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or (d) ___ they present additional claims without canceling a corresponding number of finally rejected claims. NOTE: . 3. Applicant's reply has overcome the following rejection(s): See Continuation Sheet. 4. Newly proposed or amended claim(s) ____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s). 5.⊠ The a) affidavit, b) exhibit, or c) request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet. 6. The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection. 7. ☑ For purposes of Appeal, the proposed amendment(s) a) ☐ will not be entered or b) ☑ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended. The status of the claim(s) is (or will be) as follows: Claim(s) allowed: NONE. Claim(s) objected to: NONE. Claim(s) rejected: 77-96. Claim(s) withdrawn from consideration: _____.

U.S. Patent and Trademark Office

10. Other: _____

8. The proposed drawing correction filed on ____ is a) approved or b) disapproved by the Examiner.

9. Note the attached Information Disclosure Statement(s)(PTO-1449) Paper No(s).

Richard A. Booth Primary Examiner Art Unit: 2812 Continuation of 3. Applicant's reply has overcome the following rejection(s): the rejection under 35 USC 112, first paragraph of claim 85. However, this claim will now be included in the rejection under 35 USC 103 upon appeal..

Continuation of 5. does NOT place the application in condition for allowance because: the contacts in Pierce et al. and the raised source/drain disclosed by applicant is indistinguishable. For example, the Pierce et al. reference describes the region as a contact region and in claim 86, for example, the raised source/drain of the instant invention is also described as a contact region. Additionally, it is well known in the art that while a semiconductor layer can have varying degrees of conductivity it is impossible for it to be a conductor because of the band gap structure of a semiconductor compared to a conductor. Therefore, the argument that in Pierce the semiconductor is a conductor is not at all persuasive. A heavily doped semiconductor behaves more like a conductor than a lightly doped semiconductor but is still much less conductive. In the numbers applicant cites, the titanium layer is still twice as conductive as the semiconductor. Furthermore, a source/drain region as broadly claimed in claim 77 can also include source/drain metallization or a source/drain "conductor" so applicant's arguments are not even in scope with independent claim 77, notwithstanding the fact that the examiner vehemently disagrees with applicant's arguments.

RICHARD BOOTH PRIMARY EXAMINER